

Receiving Report

Date: 14/8/6
Supplier: Thyssen

Batch No: M130013
Dart P/O: 25221

Packing Slip: Yes ☒ No ☐
Invoice: Yes ☐ No ☒
Receipt: Cash ☐ Cr ☒
New Supplier Yes ☐ No ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
Waybill Attached: Yes ☐ No ☒ N/A ☐
Shipment Complete: Yes ☒ No ☐ N/A ☐
QC18 Inspection ☒ N/A ☐
Work Order ☐ N/A ☐

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number
	<u>VUR</u>	<u>PO</u>	<u>POUR</u>	<u>B-d</u>			

Initials of Receiver

QC12

[Signature]

Production/Admin: 14/8/6
Date
Received/Costing
Initial

Location

Purchase Order Receipt Listing

Wednesday, August 06, 2014 1:15:09 PM

All amounts are calculated in domestic currency.

All Vendors PO ID PO25221 Receipt Dates from 8/6/2014 to 8/6/2014 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Cur Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Reev Date/ Reev Emp	Reev Qty (PO U/M)	Cost Per Unit/ Reev Value	Inspected Qty/ Rejected Qty (PO U/M)	MIRB Qty/ MIRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO25221	1		M6061T6B1.000X96. f		8/6/2014	8/6/2014	48.0000	\$13.80	0.0000	0	\$662.51
	No		000								
			6061T6 BAR 1.00 X f		48.0000	DESJ02		\$662.51	0.0000	0	
			6.00								
			M130013								
	2		M6061T6B1.000X12. f		8/6/2014	8/6/2014	36.0000	\$27.19	0.0000	0	\$978.91
	No		000								
			6061-T6 Bar 1.00 x f		36.0000	DESJ02		\$978.91	0.0000	0	
			12.00								
			M130013								
	3		M6061T6B2.000X08. f		8/6/2014	8/6/2014	8.0000	\$38.84	0.0000	0	\$310.71
	No		000								
			6061-T6 BAR 2.00 f		8.0000	DESJ02		\$310.71	0.0000	0	
			X 8.00" (CUT IN								
			4FT SECTION)								
			M130013								
	4		M6061T6B1.000 f		8/6/2014	8/6/2014	60.0000	\$1.74	0.0000	0	\$104.55
	No		ROUND BAR 1.00" f		60.0000	DESJ02		\$104.55	0.0000	0	
			M130013								
	5		M303B1.000X1.000 f		8/6/2014	8/6/2014	12.0000	\$11.42	0.0000	0	\$137.01
	No		303 BAR 1" X 1" f		12.0000	DESJ02		\$137.01	0.0000	0	
			M130013								
	6		M303R2.000 f		8/6/2014	8/6/2014	6.0000	\$24.30	0.0000	0	\$145.82
	No		303 ROUND BAR 2" f		6.0000	DESJ02		\$145.82	0.0000	0	
			M130013								
	8		M7075T6B1.250X07. f		8/11/2014	8/6/2014	36.0000	\$45.09	0.0000	0	\$1,623.27
	No		000								
			7075-T6 BAR 1.25" f		36.0000	DESJ02		\$1,623.27	0.0000	0	
			X 7.000"								
			M130013								

Total Received Quantity: 206.0000
 Total Qty to Inspect (PO U/M): 0.0000
 Total Reject Quantity: 0.0000
 Total Receipt Value: \$3,962.79
 Total Balance Due Quantity: 0.0000

Purchase Order ID/ Curt Type	Line Nbr/ Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date	Receiv Date/ Emp	Receiv Qty (PO U/M)	Cost Per Unit/ Receiv Value	Inspected Qty/ Rejected Qty (PO U/M)	MIRB Qty/ MIRB Reject Qty	Book Amt
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B I L L O F L A D I N G

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 889940
 Ship Date 01Aug14 at 14:27 From PFW
 Probill
 Via VIM TRUCK
 FOB HAWKESBURY
 Frt PREPAID
 Route 0- 0 Manifest
 Vhcle Trailer
 Slp HOWARD KATES (905-532-1398)
 Sold To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7
 Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-707734- 1 Your PO # 25221
 Part # Rel # / CHANTAL

ALUMINUM FLAT BAR 6061-T6511
 1.00" x 6.00" X 144.0000"

Heat Number
 201412380

Tag No
 318765

Quantity
 48 FT

PCS
 4

Wt LBS
 339

2) Our Order PEC-707734- 2 Your PO # 25221
 Part # Rel # / CHANTAL

ALUMINUM FLT BAR ECONOPLT 6061-T6511
 1.00" X 12.00" X 144.0000"

Heat Number
 Z00014062

Tag No
 318766

Quantity
 36 FT

PCS
 3

Wt LBS
 500

3) Our Order PEC-707734- 3 Your PO # 25221
 Part # Rel # / CHANTAL

ALUMINUM FLAT BAR 6061-T6511
 2.00" X 8.00" X 48.0000"

Heat Number
 201410700

Tag No
 318865

Quantity
 8 FT

PCS
 2

Wt LBS
 153

4) Our Order PEC-707734- 4 Your PO # 25221
 Part # Rel # / CHANTAL

ALUMINUM ROUND BAR 6061-T6511
 1.00" DIA X 144.0000"

Heat Number
 Z00216092

Tag No
 318767

Quantity
 60 FT

PCS
 5

Wt LBS
 56

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G
No: PEC 889940
Ship Date 01Aug14 at 14:27 From PFW
Probill
Via VIM TRUCK
FOB HAWKESBURY
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp HOWARD KATES (905-532-1398)
Sold To: (20115)
DART AEROSPACE

B I L L O F L A D I N G

5) Our Order PEC-707734- 5 Your PO # 25221
Part # Rel # / CHANTAL

STAINLESS STEEL SQ BAR 303 STAINLESS
1.00" X 144.0000"

Heat Number Tag No
4A687 318768

Quantity
12 FT

PCS
1

Wt LBS
41

6) Our Order PEC-707734- 6 Your PO # 25221
Part # Rel # / CHANTAL

STAINLESS STEEL ROUND BAR 303 STAINLESS
2.00" DIA X 72.0000"

Heat Number Tag No
L2A2 318750

Quantity
6 FT

PCS
1

Wt LBS
64

7) Our Order PEC-707734- 7 Your PO # 25221
Part # Rel # / CHANTAL

ALUMINUM PLATE 7075-T651
1.00" THICK X 8.0000" X 96.0000"
BACK ORDER

8) Our Order PEC-707734- 8 Your PO # 25221
Part # Rel # / CHANTAL

ALUMINUM PLATE 7075-T651
1.250" THICK X 7.0000" X 144.0000"
TAG # 582419

Heat Number Tag No
R09668 318710

Quantity
21.00 SFT

PCS
3

Wt LBS
382

9) Our Order PEC-707734- 9 Your PO # 25221
Part # Rel # / CHANTAL

ALUMINUM PLATE 7075-T651
1.50" THICK X 8.5000" X 144.0000"
BACK ORDER

Page: 2Continued

ALUMINUM LAITON COUVRE - PLASTIQUE ACIER INOX
ALUMINUM BRASS COPPER - PLASTICS STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G
No: PEC 889940
Ship Date 01Aug14 at 14:27 From PFW
Probill
Via VIM TRUCK
FOB HAWKESBURY
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp HOWARD KATES (905-532-1398)
Sold To: (20115)
DART AEROSPACE

B I L L O F L A D I N G

TOTAL: Tags 7 PCS 19 LBS 1535

Heat Number *** Chemical Analysis ***
201410700
201412380
4A687
L2A2
R09668
Z00014062
Z00216092

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL 3 BDLS 1 PKG 1 SKID SO# 1601

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***
**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *
* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

Page: 3 Last

ALUMINIUM / ALU - COBRE - PLASTIQUE / ACIER INOX
ALUMINUM / BRASS - COPPER - PLASTICS / STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
ALUMINUM ELAT BAR 6061-T6511
1.00" X 6.00" X 144.0000"
PART NO.

PO/Ref 25221

// CHANTAL

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-889940-001

1Aug14
Pg 1/1

Certificate of Mill Test Results

Service Center Metals

5850 Quality Way
Prince George, VA 23875



Can Do.

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
207616	2

BILL TO
ThyssenKrupp Materials NA
SHIP TO
ThyssenKrupp Materials NA, Toronto
Quantity Certified 1,355 lbs 16 pcs
MANIFEST NUMBER 228398
CUSTOMER PO PEC-259017
CUSTOMER PART NUMBER PL0130
DIE NUMBER PL0130
DATE OF SHIPMENT 6/25/2014
ALLOY/TEMPER 6061-T6511
SALES PERSON David Schroeder
DESCRIPTION PL 1 000X6.000

CERTIFICATION
ASTM-B221-13 StencilCont
SPECIFICATION
AMS-QQA-200/8 - 1997

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

Mechanical Properties

Tests **Lot No.**

1 201412380

Test Date **Ultimate Tensile Strength (KSI)** **Yield Strength (KSI)** **Percent Elongation**

6/21/14 min 55.20 max 55.20 min 52.30 max 52.30 min 15.50 max 15.50

cert 14/08/07

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others	Total	Melt Source:
0614069	6061	0.76	0.40	0.34	0.11	0.90	0.11	0.09	0.02	97.27	0.05	0.15		United States of America

Print Date: 6/25/2014

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLT BAR ECONOPLT 6061-T6511
1.00" X 12.00" X 144.0000"
PART NO.

PO/Rel 25221

// CHANTAL

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-889940-002

1 Aug 14

Signed by:

Pg 1/1

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-259329-6		CUSTOMER PART NUMBER: W73/STK		PRODUCT DESCRIPTION: 1.000 X 12.000 PRECISION WIDE BAR	
KAISER ORDER NUMBER: 668843	LINE ITEM: 006	SHIP DATE: 06/24/2014	KAISER LOT NUMBER: Z00014062	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1016.000 LB	QUANTITY: 6.000 PCS	B/L NUMBER: 609308	DIAM/DIAE/THKNS: 1.000	WIDTH: 12.000	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA <i>14/08/14</i>		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00014062	0001	1	43.5	43.9	15.0	RE 91	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
103874	.73	.20	.32	.08	.94	.10	.02	.02	.00	.00	.00	.01	.03

Applicable Requirements:

ASTM-B221-13 STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 97 (REAF 2012) UNS#A96061
(T6511 also conforms to T6-temp. applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been
inspected and tested and found in conformance with applicable specifications forming a part of the
description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on
Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 3C139947

Kaiser Order Number: 668843

Line Item: 006

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
ALUMINUM FLAT BAR 6061-T6511
2.00" X 8.00" X 48.0000"
PART NO.

PO/Rel 25221

// CHANTAL

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results
BL PEC-889940-003
1 Aug 14
Pg 1/1



Can Do.

Service Center Metals

5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
208700	4

BILL TO ThyssenKrupp Materials NA	MANIFEST NUMBER 230466	DIE NUMBER PL0745	DATE OF SHIPMENT 7/11/2014
SHIP TO ThyssenKrupp Materials NA, Toronto	CUSTOMER PO PEC-259526	ALLOY/TEMPER 6061-T6511	SALESPERSON David Schroeder
Quantity Certified 1,140 lbs	CUSTOMER PART NUMBER PL0745	DESCRIPTION PL 2.000x8.000	

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
1	201410700	5/28/14	min 55.20 max 55.20	min 51.70 max 51.70	min 15.05 max 15.05

OK 11/08/07

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others	Total	Melt Source:
05211404	6061	0.78	0.34	0.32	0.11	0.87	0.09	0.08	0.01	97.40	0.05	0.15	United States of America
1K140520C-0301	6061	0.74	0.37	0.32	0.10	0.88	0.10	0.07	0.02	97.39	0.05	0.15	United States of America
1K140520C-0401	6061	0.74	0.37	0.32	0.10	0.88	0.10	0.07	0.02	97.39	0.05	0.15	United States of America
1M140520A-0111	6061	0.75	0.37	0.33	0.10	0.90	0.11	0.07	0.02	97.36	0.05	0.15	United States of America
1M140520A-0211	6061	0.75	0.37	0.33	0.10	0.90	0.11	0.07	0.02	97.36	0.05	0.15	United States of America

Print Date: 7/11/2014

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6S11
1.00" DIA X 144.0000"
PART NO.

PO/Rel 25221

// CHANTAL

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-SS9940-004

1Aug14

Signed by:

Pg 1/2

KAISER
ALUMINUM
FABRICATED PRODUCTS

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CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-259655-5		CUSTOMER PART NUMBER: 503/STK		PRODUCT DESCRIPTION: KAISERSELECT PRECISION ROD 1.000+/- .004	
KAISER ORDER NUMBER: 669600	LINE ITEM: 005	SHIP DATE: 07/08/2014	KAISER LOT NUMBER: Z00216092	ALLOY: 6061	TEMPER: T6S11B
WEIGHT SHIPPED: 1020.000 LB	QUANTITY: 92.000 PCS	B/L NUMBER: 609393	DIAM/DIA/TKNS: 1.000	WIDTH: 1.000	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA <i>02/14/08/07</i>		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00216092	0001	1	51.2	48.7	19.0	RE 94	N/A	N/A
Z00216092	0001	2	51.9	49.4	18.0	RE 94	N/A	N/A
Z00216092	0001	3	52.2	49.8	18.0	RE 95	N/A	N/A
Z00216092	0001	4	52.1	49.6	18.0	RE 95	N/A	N/A
Z00216092	0001	5	51.4	49.0	20.0	RE 93	N/A	N/A
Z00216092	0001	6	53.4	50.6	17.0	RE 92	N/A	N/A
Z00216092	0001	7	52.4	49.9	19.0	RE 95	N/A	N/A
Z00216092	0001	8	51.8	49.3	19.0	RE 94	N/A	N/A
Z00216092	0001	9	53.6	50.8	16.0	RE 92	N/A	N/A
Z00216092	0001	10	53.6	50.8	16.0	RE 92	N/A	N/A
Z00216092	0001	11	52.2	49.7	15.0	RE 93	N/A	N/A
Z00216092	0001	12	52.2	49.7	16.0	RE 94	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.30	0.00	NA	NA	NA	0.00	0.00
103976	.76	.25	.29	.09	.93	.10	.01	.03	.00	.00	.00	.01	.03

Applicable Requirements:

PER ASTM-B221-13, STENCILED ASME-SB221 1996 SECT II PER AMS-QQ-A-200/8 (REAF 2012)
UNS# A96061 MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6S11/T6 ELEVATED MINIMUM
MECHANICAL PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION
= 10.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

Plant Serial: 00141206

Kaiser Order Number: 669600

Line Item: 005

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

1.00" DIA X 144.0000"

PART NO.

PO/Rel 25221

// CHANTAL

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-889940-004

1 Aug 14

Signed by: 

Pg 2/2

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00141206
Kaiser Order Number: 669600
Line Item: 005

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
STAINLESS STEEL ROUND BAR 303 STAINLESS
2.00" DIA X 72.0000"
PART NO.

PO/Ref: 25221 // CHANTAL
We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results
BL PEC-889940-006
1Aug14
Pg 1/1



6870 HIGHWAY 42 EAST

METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
6870 HIGHWAY 42 EAST
GHENT, KY 41045

Certificate: 920582 3

Customer: 007206 001

Ship To:
THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Date: 2/19/2014 Page: 1

Steel: 303

Finish: ST

Your Order: PEC254741

NAS Order: PN 0035850 04

Corrosion:

PRODUCT DESCRIPTION:

Round Bar, Annealed, Smooth turned, Cold finished
ASTM A582/12 EN 10204 3.1, ASTM A484/11
AMS 5640F TYPE 1, QQS-764B CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAF 252.225-7008 BY DIRECTIVE
2011/65/EU-ROHS. EAF+AOD+CC. NO WELD REPAIR. MILTED AND WPG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Std # Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BG0527 2	2.0000	1.173	144.00	3	1		

CHEMICAL ANALYSIS

CM(Country of Matl) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Chemical Analysis per ASTM A751/08

HEAT	CM	C %	CO %	CR %	CU %	NI %	MO %	N %	SI %	P %
12A2	US	.0473	.1730	17.1255	.3495	1.8385	.3335	.0441	8.4500	.0310

S %	SI %
.3425	.3830

MECHANICAL PROPERTIES

Product Id	1 d d f	HB No.	.2YS KSI	UTS KSI	RA %	ELong % 4D
BG0527 2	R L	153.00	44.00	84.00	57.00	49.00

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

[Signature]
2/19/2014

Constellium Valais SA

CH-3961st Sierre
SuisseAerospace and Transportation
Europe - AT Valais, Usines de Sierre et StegTel : +41(0) 27 457 51 11
http://www.constellium.comCONSTELLIUM ROLLED PRODUCTS
RAVENSWOOD, LLC

US -26164 RAVENSWOOD

INSPECTION CERTIFICATE

According To EN 10204-3.1
Disp. Advice / Cert 0080234333
Date 08/05/2013 Page 1

Your Order 7075 plates

Project

Dated 01/04/2013
Our Confirmation No. 142628-40
Customer No. 606281
Sales Contact Fabienne Salamin
++41 (27) 457 6432
Certificate Dpt : 41 27 457 66 92Aluminium plates in AA7075-T651, mill finish, Alumatex paper interleaved
To AMS 4045K, AMS QQ-A-250/12 August 1997, ASTM B209 and SIE0002

Your article : 001-300795

Lot	Production No.	Weight	Quantity	Dimensions
R09668	6240518	4541.45 Lbs	5	1.250" x 48.50" x 144.50"

Mechanical and technological properties

Sample	Temper.	KSI-UTS	KSI-YG	A%2Tch	HB						
min-max	T651	>=77	>=67	>=6							
min-max											

Measured values

R09668-1	T651	83.7	74.8	12	177						
R09668-2	T651	82.8	73.8	12	176						

Chemical composition

Required composition (% by weight)

Casting No.	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti		
Min			1.2		2.1	.18		5.1			
Max	.40	.50	2.0	.30	2.9	.28	.05	6.1	.20		

Analysis results (% by weight)

Other elements: Each <= 0.05% Total <= 0.15%

31004812	0.07	0.18	1.57	.037	2.49	0.19	.0052	5.75	.031		
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Remark

This certificate of conformance verifies that the organization took effective
control of quality to meet the specified requirements on both the sales order(s)
and the customer purchase order(s)

*** COUNTRY OF ORIGIN AND MANUFACTURE : SWITZERLAND ***

Compliant to the European Union Directive 2011/65/EU also known as RoHS

Aline Thurre

Inspection Department

Valid without signature 03

Système de Management certifié

ISO 9001 / ISO 14001 / OHSAS 18001

Or voir si nécessaire au dos

THYSSENKRUPP MATERIALS NA
DART AEROSPACE
ALUMINUM PLATE 7075-T651
1.250" THICK X 7.0000" X 144.0000"
PART NO.

PO/Rel 25221

// CHANTAL

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results
BL PEC-889940-008
1 Aug 14
Pg 1/3

From: ThyssenKrupp Materials NA

THYSSENKRUPP MATERIALS NA
DART AEROSPACE
 ALUMINUM PLATE 7075-T651
 1.250" THICK X 7.0000" X 1.44.0000"
 PART NO.

PO/Rel 25221 // CHANTAL
 We certify that this is a true copy of the report
 furnished by the producer of the metal, or data
 resulting from tests made in approved labs.

Signed by: _____

Certificate of Mill Test Results
 BL PEC-889940-008
 1 Aug 14
 Pg 2/3

FORM: 1006

WORKORDER:

2402874805

COPPER AND BRASS SALES

MATERIAL TYPE

ALUMINIUM ALLOYS

PRODUCT DESIGNATION

2014 2024 2224 2324 7050 7075 7150 7175 7475 ALUMEC 89 ALUMEC 99 QC-7

"WARNING"

SMALL CHIPS,FINE TURNINGS AND DUST MAY IGNITE READILY.EXPLOSION POTENTIAL MAY BE PRESENT WHEN:DUST OR FINES ARE DISPERSED IN THE AIR; FINE, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH CERTAIN METAL OXIDES; OR,CHIPS,FINES,DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH WATER OR MOISTURE.KEEP AWAY FROM IGNITION SOURCE.USE EXPLOSION-PROOF VENTILATION.KEEP MATERIAL DRY.

THIS PRODUCT CONTAINS BERYLLIUM AND COPPER.INHALING BERYLLIUM DUST OR FUMES MAY CAUSE CHRONIC BERYLLIUM DISEASE (CBD),A SERIOUS CHRONIC LUNG DISEASE IN SOME INDIVIDUALS.BERYLLIUM IS A CANCER HAZARD;OVER TIME CBD AND CANCER CAN BE FATAL,TARGET ORGAN IS PRIMARILY THE LUNG.INHALING LARGE AMOUNTS OF COPPER,MAGNESIUM OXIDE,MANGANESE OXIDE,AND ZINC OXIDE FUMES OR DUST MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS.CHRONIC OVEREXPOSURE TO COPPER MAY CAUSE THICKENING OF THE SKIN;AND SKIN,TEETH,AND HAIR DISCOLORATION.CHRONIC OVEREXPOSURE TO MANGANESE DUST CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE,SCARRING OF THE LUNGS AND REPRODUCTIVE HARM IN MALES.TARGET ORGAN IS PRIMARILY THE LUNG,BUT REPEATED HIGH EXPOSURE CAN ALSO AFFECT THE LIVER.CHRONIC OVEREXPOSURE TO IRON OXIDE DUST/FUME MAY CAUSE LUNG SIDEROSIS.CHRONIC OVEREXPOSURE TO SILICON DUST CAN CAUSE CHRONIC BRONCHITIS.OVEREXPOSURE TO AMORPHOUS SILICA CAN CAUSE DRYING OF THE MUCOUS MEMBRANES OF THE EYES,NOSE,AND THROAT.

THIS PRODUCT ALSO CONTAINS NICKEL AND CHROMIUM COMPOUNDS.INHALATION OF NICKEL DUST OR FUME MAY RESULT IN INFLAMMATION OF THE RESPIRATORY TRACT AND CAUSE NASAL AND/OR LUNG CANCER.NICKEL HAS BEEN IDENTIFIED AS A POTENTIAL HUMAN CARCINOGEN.EXPOSURE TO CHROMIUM DUST OR FUMES MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND KIDNEY AND LIVER DAMAGE.UNDER HIGH TEMPERATURES,HEXAVALENT CHROMIUM MAY BE PRODUCED,IF IN THE INSOLUBLE FORM,IT IS A CONFIRMED HUMAN CARCINOGEN.(CALIFORNIA PROPOSITION 65).

IF COATED WITH OIL,MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT.WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.
 READ THE ALUMINIUM/ALUMINIUM ALLOYS MATERIAL SAFETY DATA SHEET (MSDS) ON FILE WITH YOUR EMPLOYER BEFORE WORKING WITH THIS MATERIAL.

* If processing or recycling produces particulate,use exhaust ventilation or other controls designed to prevent exposure to workers. Examples of such activities include melting, welding,grinding,abrasive sawing,sanding and polishing.Any activity which abrades the surface of this material can generate airborne particulate.Use appropriate NIOSH approved respiratory protection (P95; P100 for lead with, quantitative fit testing required) if exposures exceed the permissible limits.

* The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational exposures.

* Aluminum, in solid form and as contained in finished products presents no special health risk.

* Sold for manufacturing purposes only.This product can be recycled; contact your sales representative.

For additional information, call or write to Copper and Brass Sales,22355 West Eleven Mile Road, Southfield, MI 48033,telephone 248-233-5600, or visit our web site @ www.copperandbrass.com.

ALUMINUM LABEL NO. 300-1056

ISSUED 10/01/2008

A company
of ThyssenKrupp
Services

ThyssenKrupp Materials NA Inc.



ThyssenKrupp Materials NA
Copper and Brass Sales Division
22355 West 11 Mile Road
SOUTHFIELD MI 48033
Tel.: +12482335700 Fax: +12482335888

Order number	Ord-pos	Del-pos	Part description
Customer PO	PO date	Quantity	Customer Part
MRK header	MRK type	Search Criteria	Heat lot
81A/1401788386	000020	900001	7075 Aluminum - 7051 Non-USI 1.25000 (+)
	12/17/2013	5 ST	
Att 001.PDF	ACAP	92090297642013G001	R09668

Delivery number	2402874805
Date	12/18/2013

THYSSENKRUPP MATERIALS NA - ECAD
2821 LANGSTAFF ROAD
CONCORD L4K 5C6
CANADA


Page 1 of 1

THYSSENKRUPP MATERIALS NA
DART AEROSPACE
ALUMINUM PLATE 7075-T651
1.250" THICK X 7.0000" X 144.0000"
PART NO.

PO/Ref 25221 // CHANTAL
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Signed by: _____
BL PEC-889940-008

Certificate of Mill Test Results
1Aug14
Pg 3/3



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO25221

Purchase Order Date 7/30/2014
PO Print Date 7/31/2014

Page Number 1 of 5

Order From :
 THYSSENKRUPP MATERIALS CA LTD
 O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
 TORONTO, ON M5W 5V8
 CA

VC-COP001

Ship To : DART AEROSPACE LTD
 1270 ABERDEEN
 HAWKESBURY, ON K6A 1K7
 CANADA

REVISED \$

Contact Name
Vendor Phone 905 669 9444

Buyer
Customer POID
Customer Tax #
Terms
Currency
FOB

Chantal Lavoie
 10127-2607
 Net 30
 CAD
 FCA – (Free Carrier)


Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

M/30013

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M6061T6B1.000X06.000	6061T6 BAR 1.00 X 6.00	8/6/2014 Yes 8/6/2014		48.00 f	\$15.05	\$722.40
MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221							
Line Total:							\$722.40
2	M6061T6B1.000X12.000	6061-T6 Bar 1.00 x 12.00	8/6/2014 Yes 8/6/2014		36.00 f	\$29.65	\$1,067.40
MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221							
Line Total:							\$1,067.40

Note:

7/31/2014

	Dart Aerospace Ltd.
	1270 Aberdeen Street
	Hawkesbury, ON K6A 1K7
	Tel: 613 632 9577
	Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO25221**

Purchase Order Date 7/30/2014

PO Print Date 7/31/2014

Page Number 2 of 5

Order From : VC-COP001
 THYSSENKRUPP MATERIALS CA LTD
 O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
 TORONTO, ON M5W 5V8
 CA

Ship To : DART AEROSPACE LTD
 1270 ABERDEEN
 HAWKESBURY, ON K6A 1K7
 CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone

Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

3	M6061T6B2.000X08.000	6061-T6 BAR 2.00' X 8.00" (CUT IN 4FT SECTION)	8/6/2014	8.00	4	\$42.35	\$338.80
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No

8/6/2014

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
 AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
 ASTM B221

NOTE: PLEASE CUT IN SECTION OF 4 FT

Line Total: \$338.80

4	M6061T6R1.000	ROUND BAR 1.00"	8/6/2014	60.00	4	\$1.90	\$114.00
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Yes

8/6/2014

MATERIAL: 6061-T6 (OR T651/ T6510/ T6511/ T62) ALUMINUM ROUND BAR
 QQ-A-225/8 OR AMS-QQ-A-225/8 OR (AMS 4117/4128/4115/4116)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160
 OR ASTM B211 OR ASTM B221

Line Total: \$114.00

Note:

7/31/2014



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO25221**

Purchase Order Date 7/30/2014

PO Print Date 7/31/2014

Page Number 3 of 5

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

5	M303B1.000X1.000	303 BAR 1" X 1"	8/6/2014 Yes 8/6/2014	12.00 f	X	\$12.45	\$149.40
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MATERIAL: AISI 303 SS BAR AS PER ASTM A582
NOTE: AISI 304/316 NOT ACCEPTABLE

Line Total: \$149.40

6	M303R2.000	303 ROUND BAR 2"	8/6/2014 Yes 8/6/2014	6.00 f	X	\$26.50	\$159.00
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MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582
NOTE: AISI 304/316 NOT ACCEPTABLE


Line Total: \$159.00

7	M7075T6B1.000X8.000	7075-T6 BAR 1.000" X 8.000"	8/11/2014 Yes 8/11/2014	8.00 f	X	\$49.00	\$392.00
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MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR
AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR
PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

Note:

7/31/2014



DART
 AEROSPACE

Dart Aerospace Ltd.
 1270 Aberdeen Street
 Hawkesbury, ON K6A 1K7
 Tel: 613 632 9577
 Fax: 613 632 1053

PURCHASE ORDER

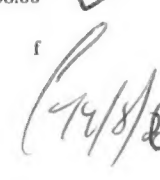
Purchase Order ID PO25221

Purchase Order Date 7/30/2014
PO Print Date 7/31/2014

Order From : THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8 CA	VC-COP001	Ship To : DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CANADA
--	------------------	--

Contact Name Vendor Phone 905 669 9444 Ship To Contact Ship To Phone Ship Via: VENDOR'S TRUCK Ship Acct:	Buyer Customer POID Customer Tax # 10127-2607 Terms Net 30 Currency CAD FOB FCA – (Free Carrier)	Chantal Lavoie
---	---	----------------

Line Total: \$392.00


8 M7075T6B1.250X07.000 7075-T6 BAR 1.25" X 7.000" 8/11/2014 36.00 \$49.17 \$1,770.00 Yes 8/11/2014 MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE	✓ f 
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Line Total: \$1,770.00

9 M7075T6B1.500X8.500 7075-T6 BAR 1.500' X 8.500" 8/11/2014 12.00 \$70.42 \$845.00 Yes 8/11/2014 MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE	f
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Line Total: \$845.00

Note:



DART
 AEROSPACE

Dart Aerospace Ltd.
 1270 Aberdeen Street
 Hawkesbury, ON K6A 1K7
 Tel: 613 632 9577
 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO25221

Purchase Order Date 7/30/2014
PO Print Date 7/31/2014

Page Number 5 of 5

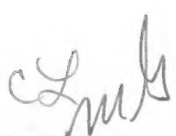
Order From :	VC-COP001	Ship To :	DART AEROSPACE LTD
THYSSENKRUPP MATERIALS CA LTD		1270 ABERDEEN	
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"		HAWKESBURY, ON K6A 1K7	
TORONTO, ON M5W 5V8		CANADA	
CA			

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
		Customer Tax #	10127-2607
Ship To Contact		Terms	Net 30
Ship To Phone		Currency	CAD
Ship Via:	VENDOR'S TRUCK	FOB	FCA – (Free Carrier)
Ship Acct:			

10	71401-45	PROCUREMENT QUALITY CLAUSES	8/6/2014	1.00	\$0.00	\$0.00
			No			
			8/6/2014			
		Procurement Quality Clauses A005 right of entry A012 chemical and physical test report A016 personnel qualification A017 raw material identification (as applicable) A026 certification of materila conformance A041 quality management system A042 dart notification by supplier A043 retention of quality documents				

Line Total: \$0.00

PO Total: \$5,558.00



Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 3 Change Date: 7/31/2014